

1600

RAW SEQUENCE LISTING DATE: 07/11/2002 PATENT APPLICATION: US/09/687,230A TIME: 13:27:28

Input Set : A:\EP.txt

Output Set: N:\CRF3\07112002\I687230A.raw



3 <110> APPLICANT: Braselmann, Sylvia 5 <120> TITLE OF INVENTION: Nucleotide Sequences that Encode Phosphatidylinositol-3' Kinase Associated Proteins and Uses Thereof 8 <130> FILE REFERENCE: ONYX1027-DIV1 10 <140> CURRENT APPLICATION NUMBER: US 09/687,230A 11 <141> CURRENT FILING DATE: 2000-10-13 13 <150> PRIOR APPLICATION NUMBER: US 08/942,008 14 <151> PRIOR FILING DATE: 1997-10-01 16 <150> PRIOR APPLICATION NUMBER: US 60/030,103 17 <151> PRIOR FILING DATE: 1996-11-01 19 <160> NUMBER OF SEQ ID NOS: 3 21 <170> SOFTWARE: PatentIn version 3.1 23 <210> SEO ID NO: 1 24 <211> LENGTH: 2307 25 <212> TYPE: DNA 26 <213> ORGANISM: Phosphatidylinositol-3' Kinase 28 <220> FEATURE: 29 <221> NAME/KEY: CDS 30 <222> LOCATION: (162)..(1928) 31 <223> OTHER INFORMATION: 34 <400> SEQUENCE: 1 35 ctcgaggggc atcgcgccgc ccggcgcgcg ccgccccct gcctcgcggc gcggggtctc 60 37 gegggeeeeg etecegeeet eegetegeet ggeeeggaee ggaageggeg eegeaeggee 120 39 tgggcetgge geggggggeg ggeaeegggg eeeggtegga e atg gge aag aag cae 176 40 Met Gly Lys Lys His 41 224 43 aag aag cac aag tog gac aaa cac oto tac gag gag tat gta gag aag 44 Lys Lys His Lys Ser Asp Lys His Leu Tyr Glu Glu Tyr Val Glu Lys 15 45 10 272 47 ccc ttg aag ctg gtc ctc aaa gta gga ggg aac gaa gtc acc gaa ctc 48 Pro Leu Lys Leu Val Leu Lys Val Gly Gly Asn Glu Val Thr Glu Leu 51 tee acg ggc age teg ggg cae gae tee age ete tte gaa gae aaa aac 320 52 Ser Thr Gly Ser Ser Gly His Asp Ser Ser Leu Phe Glu Asp Lys Asn 45 55 gat cat gac aaa cac aag gac aga aag cgg aaa aag aga aag aaa gga 368 56 Asp His Asp Lys His Lys Asp Arg Lys Arg Lys Lys Arg Lys Lys Gly 60 416 60 Glu Lys Gln Ile Pro Gly Glu Glu Lys Gly Arg Lys Arg Arg Arg Val 75 80 63 aag gag gat aaa aag aag cga gat cga gac cgg gtg gag aat gag gca 464 64 Lys Glu Asp Lys Lys Lys Arg Asp Arg Asp Arg Val Glu Asn Glu Ala

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	Thr		Leu	GIII	GIU	Ald	140	ASII	GIII	ьец	Mec	145	GIII	пси	GIII	n. y	•
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85					170		+	~~~	+ - +		+ 00	2+2	maa.	a a a		aan	752
87	aaa	gaa	aag	atc	aag	aac	aal	yac	m	cay	Cor	Tla	Clu	Clu	Lou	Tyc	732
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89				185	_ 4 _	_ 4			190	~~~	2+4	a++	+ > 0		222	003	800
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93			200					205		~	a+ a	++ ~		+ 02	aas	ata	848
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	Glu		тте	\mathtt{Tyr}	туг	ràs		Ala	гаг	ьуѕ	ьeu	225	птэ	Set	GТÄ	Mec	
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99	aaa	att	CLL	agc	cag	gaa	aya	ацц . т1а	cay	aye	r Tar	aay	cay cay	ayc Sei	aca - Tle	yac Silan	050
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	230					235		201					, and	- aa:	2 202		944
103	י דני	ate	g ger	c gac	: LLy	Cay	aaa T ***	ı acı	. Cya	Tizz	o Clr	Tare	. yai	- 990 - Gl	r ucc	gac Asp	311
		e me	C Ale	a ASP			г гу	, 1111	. Aly	255		гпуз	, us	01)	260		
105					250						-		, ans	a man		gag	992
107	aco	t te	a cag	g agu	. ggg	yay	yac Nar	gya Cla	, 61	Ctr	- Trr	, cay	y ayo	r Gli	, ago	g Glu	,,,,
		r se.	r GII			GIU	ı ASE	, сту	270		2 1TF	, 611	ı mış	275		, ora	
109			L ~~.	265							7 220	t ant	- 000			gaa	1040
117	L yac	o Co	L 990	a yat	. 900	yaa Cli	i yca i λ1∋	uic Uic	λla	Dha	5 uug 5 T.ve	g ago	Dro	Sei	r Lve	Glu	2010
		s se.) Alc	LGIU	I Ala	285		PIIC	= пуз	2001	290		L LIYE	, GIU	
113			280										2)(,			1088
					~~~			· 2+0	· att	~~~	a mat	- 220	+++	- aaa	a acc	י ממד	1000
110	aat	t aaa	a aaq	g aaa	gac	aaa	gat	atg	ctt	gaa	a gat ı Asr	aag	ttt Dhe	aaa Lve	a ago	aat Asn	
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116 117 119	Ası Aat	1 Lys 29:	s Lys 5 a gae	g aaa s Lys g aga	a gag	Lys cag	Asp 300 gag	Met cag	Leu ctt	Glu : gao	ı Asp	Lys 305 ato	s Phe 5 c gtq	e Lys g aag	s Sei g gaa	Asn tct	1136
116 117 119 120	Ası 7 9 aat 9 Ası	n Ly: 29: t tta n Le:	s Lys 5 a gae	g aaa s Lys g aga	a gag	Lys cag Glr	Asp 300 g gag n Glu	Met cag	Leu ctt	Glu : gao	a Asp c cgc c Arg	305 ato	s Phe 5 c gtq	e Lys g aag	s Sei g gaa	Asn tct Ser	1136
116 117 119 120 121	5 Ası 7 9 aat 9 Ası 1 31(	n Ly: 29! t tta n Le:	s Lys 5 a gag ı Glu	g aaa s Lys g aga ı Arg	s Asp gag g Glu	cag Glr 315	300 300 g gag n Glu	Met cag Glr	Leu ctt Leu	Glu gad Asp	a Asp c cgc p Arg 320	305 ato Ile	S Phe S gto e Val	e Lys g aag l Lys	s Sei g gaa s Gli	tct Ser 325	
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116 117 119 120 121 123	Asr aat Asr 310 gga Gly	n Ly: 29! t tta n Le: )	s Lys 5 a gag ı Glu	g aaa s Lys g aga u Arg	s Asp gag g Glu g acc g Thr	cag Glr 315 agg	Asp 300 g gag n Glu i g cgg	Met cag Glr	Leu ctt Leu gtg	gad Ası aad Ası	a Asp c cgc p Arg 320 c agt n Ser	305 305 ato JILe Cag	s Phe c gtg e Val	e Lys g aag L Lys c gaa	s Ser g gaa s Glu n ttt n Phe	tct Ser 325 gaa Glu	
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116 117 119 120 121 123 124 125	5 Asr 7 aat 9 aat 1 310 3 gga 1 Gly 5 aga	t tta 29! t tta 1 Lei 2 gga 7 Gly	s Lys  a gae  a aae  y Lys  a aae	g aaa s Lys g aga l Arg g ctg s Leu	s Asp a gag g Glu g acc a Thi 330 a gat	cag Glr 315 agg Arg	300 g gag g Glu g cgg g Arg	Met  Glan  ctt  Leu  acg	Leu g ctt Leu g gtg i Val	gad Asp aad Asi 335	a Asp c cgc Arg 320 c agt n Ser 5	305 ato Ile Cag Glr	s Phesic gto	g aag L Lys c gaa s Glu	g gaas Glu ttt Phe 340	t Asn tct Ser 325 gaa Glu	
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								gga									1328
	THE		СТА	Arg	ьeu	GIII		Gly	val	ASII	THE		GIII	GTÄ	Pne	гуѕ	
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		-					-	act					-				1376
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		+ 2.0	201	+ 0+	+ - +		aca	ca+	+ = +	<b>430</b>			+++	aa2	22+		1424
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	-			_	_		_	Ile				_	-	_	_		1320
153	пор	пса	440	DCI	"DP	inc	DCI	445	111.5	Oru	ı ne	шси	450	1111	Cys	0111	
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163	gat	gaa	ggc	cat	act	agg	aca	ctt	gac	aca	gga	aaa	gaa	atg	gag	cag	1664
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189	a ~+ -	t		585				aa+-	<b>+</b>	+					. ~ ~ + +	++	2010
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																gatta	2138 2198
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212		•	-	_	5	-	-		-	10	-	-			15		
215	Glu	Tyr	Val	Glu	Lys	Pro	Leu	Lys	Leu	Val	Leu	Lys	Val	Gly	Gly	Asn	
216		-		20	_			_	25			7		30			
219	Glu	Val	Thr	Glu-	Leu	Ser	Thr	Gly	Ser	Ser	Gly	His	Asp	Ser	Ser	Leu	
220			35					40					45				
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	тте	GIU		Leu	гăг	Asp	ASI		гуѕ	Leu	мес	_		ASII	Ala	мес	
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	Gln	Δτα	Glu		Glu	Δen	Ser	Glv		Δla	Glu	Δla	His		Phe	Lvs	
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304 370
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307 Leu Gln Gly Phe Lys Glu Asp Lys Arg Asn Lys Val Thr Pro Val Leu
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315 Thr Phe Ala Asn Ile Ser Lys Asp Asp Ser Asp Leu Ile Tyr Ser Thr
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7/11/02

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VERIFICATION SUMMARY

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